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Documentary as indicated. SOURCE (Information specifically requested.)

> RECENTLY PUBLISHED RESEARCH OF THE RAZAN MEDICAL INSTITUTE INCHI V. M. MOLOTOV, USSR

"Varying Intensity in the Activity of the Hypophysis in Thyroidectomized Onines Pigs and Rate due to the Effect of Thiotracil," M. Arthangel shays, A. A. Voytkewich, Chair of Gen Biol, Rasan Ned Inst, 12 pp

"Isv &k Hauk, Ser Biol" No 2, Feb 1947

Study of the changes in the thyrotropic function of the glandular lobe due to hypophysis in enimals sub-jected to thioursell before and after thyroidectary. (16737)

"Changes in the Thyrotropic Function of the Rypo-physis due to the Combined Effect of Thiouracil and the Thyroxd Hormone," A. A. Voytkevich, Kasen Med

"Inv Ak Nauk, Ser Riol" No 2, Feb 1947

Experiments on white rate, showing that the action of the throught forth the phenomenon of hypertrophy and hyperplasis of the thyruid gland and served to prove that it rapidly reduced the content of the hormonal element in the thyroid tissue to zero. (16736)

"Ciporin, A Des Respiratory Stimulant," M. A. Aluf, T. V. Raspopova, Kasan Med Inst

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"Farmskel i Teksikel" Vol 8, No 1, 1945, pp 26-8

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Ciperin is Rt 2-methyl-8-(1-methyl-2-pyrrolidyl)imidazo [1,2-a] pyridine-3-carboxylate.2HCl. It stimulates respiration in cats, rabbits, and dogs after intravenous or intramuscular injection. The effect is intensified by morphine or CCl_CHO.H_2O. Rabbits were the most sensitive test animals. Effects of persectin and ciperin are compared.

"Intensity of Brain-tissue Respiration: The Brain and the Muscle Supply of Oxygen, Carbohydrates, and Products of Decomposition of Carbohydrates during Insulin Intoxication," M. G. Mereshinskiy, L. S. Cherkasova, Kasan Ned Inst

"Byull Eksper Biol i Med" Vol 22, No 1, 1946, pp 31-4

Guinea pigs, rabbits, and dogs were investigated as to brain-tissue respiration in insulin shock by using the Warburg technique on mineed tissue in Ringerbloat-binate suspension. In guines page the brain bloat-binate suspension. In guines page the brain bloate shows a Qoo in insulin shock which is 545 of normal value. In rabbits the white brain substance gave 675, gray matter 52.25. In dogs the white matter gave 76.15, gray matter 63.25. Thus, insulin shock leads to sweere depression of brain respiration. Amilysis of arterial and venous blood showed that the supply of glucose to the muscle is depressed, although the O supply is substantially normal. As the shock developed, the muscle lost its ability to retain glucose, and the venous blood carried as much as 445 or normal glucose level; the 0 in venous blood in this case was 1/3% of normal. The brain tissue tends to retain glucose in early shock stage but later begins to lose glucose like the muscle. The venous blood from the brain showed severe increase over normal. In early shock stages glycogen tends to be retained in the mustle and especially in the brain; in deep shock this tendency is substantially lost. Blood lactic acid rises in carly shock, probably because of convilsions; this condition moderates when come stage is reached. Brain tissue does not utilize lactic acid but actually supplies it to the blood. Pyruvic acid level does not vary significantly.

"Pharmacology of Polygomem Aviculare," M. A. Aluf, T. V. Raspopova, Kaman Med Inst

"Formakel i Toksikol" Vol 8, No 1, 1945, pp 34-5

Tests with 10 and 20% infusions, describen (1:4), aqueous extract (1:50), and alcohol extract of knot-grass leaves were made on mice, cate, rabbits, and dags. The HED for cate and rabbits is 20 co/kg as infusion or describen, or 2 cc/kg as aqueous extract, given intravenously. For mice it is 0.2 cc (about 10 cc/kg) of aqueous extract, given intraperitoneally.

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Intravenous injections lower blood pressure in cats, rebbits, and dogs. The most potent preparations are the agreeus and alcohol extracts. Further research as hemostatic agents is suggested.

*Comparative Evaluation of Albemine and Sulfunilamide, M. A. Aluf, B. A. Boltter, T. V. Raspopowa, Kazan Med Inst

"Farmakol i Toksikol" Vol 8, No 1, 1945, pp 35-6

Albamine, Howcell Southlet (I), is somewhat more alkalisoluble than sulfanilamide (II). Toxicity tests on 10 white mice with 3% solutions in aqueous alkali and 10% solutions in 40% urctropine showed the maximum toxic doses to be 10 mg; Midno 35 mg. With 15-20-mg doses, II was lethal to 40-50% of the test mice, I only to 20%. At 25 mg, II was 70% lethal, I 60%; at 30 mg, II 80%, I 90%. Blood pressure of cats under urstlem narcesis was measured after injecting 100, 200, and 300 mg/kg intravenously, as I or 2% solution in aqueous alkali or as 10% solution in 40% urstropine. At 200 and 300 mg/kg, I tanked to lower blood pressure, II to raise it. Neither had any effect at 100 mg/kg. Clinical trials with 10 patients showed that I is fully equal in potency to II or prontosil, and has no side reactions.

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